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03C0 #9

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Tasuku Honjo et al.
Serial No. : 09/966,880
Filed : September 28, 2001
Title : NOVEL CYTIDINE DEAMINASE

Art Unit : 1645
Examiner :

Attention: Official Draftsman
Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL OF FORMAL DRAWINGS

Please substitute the enclosed seventeen (17) sheets of formal drawings for the corresponding drawings presently in the application.

Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 06501-088001.

Respectfully submitted,

Date: May 31, 2002



Jack Brennan
Reg. No. 47,443

Fish & Richardson P.C.
225 Franklin Street
Boston, Massachusetts 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

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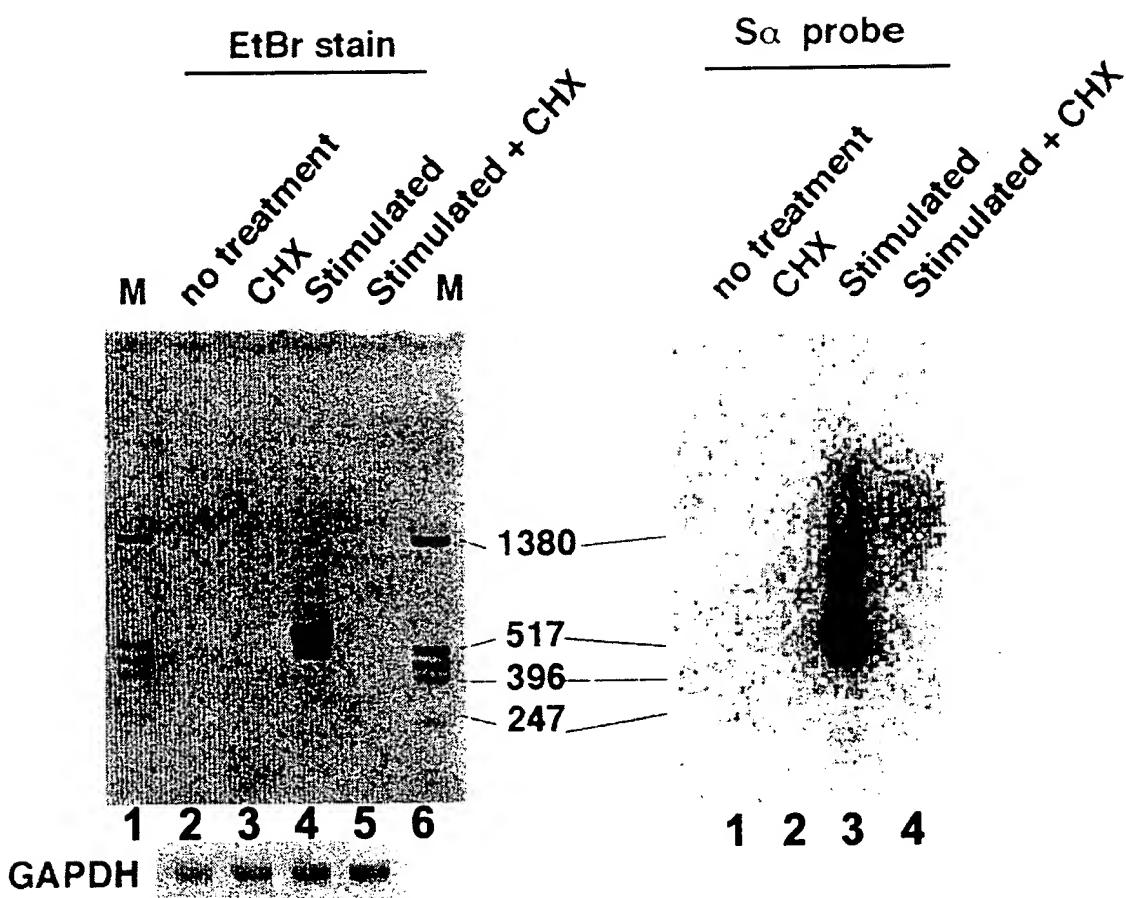


FIG. 1A

FIG. 1B

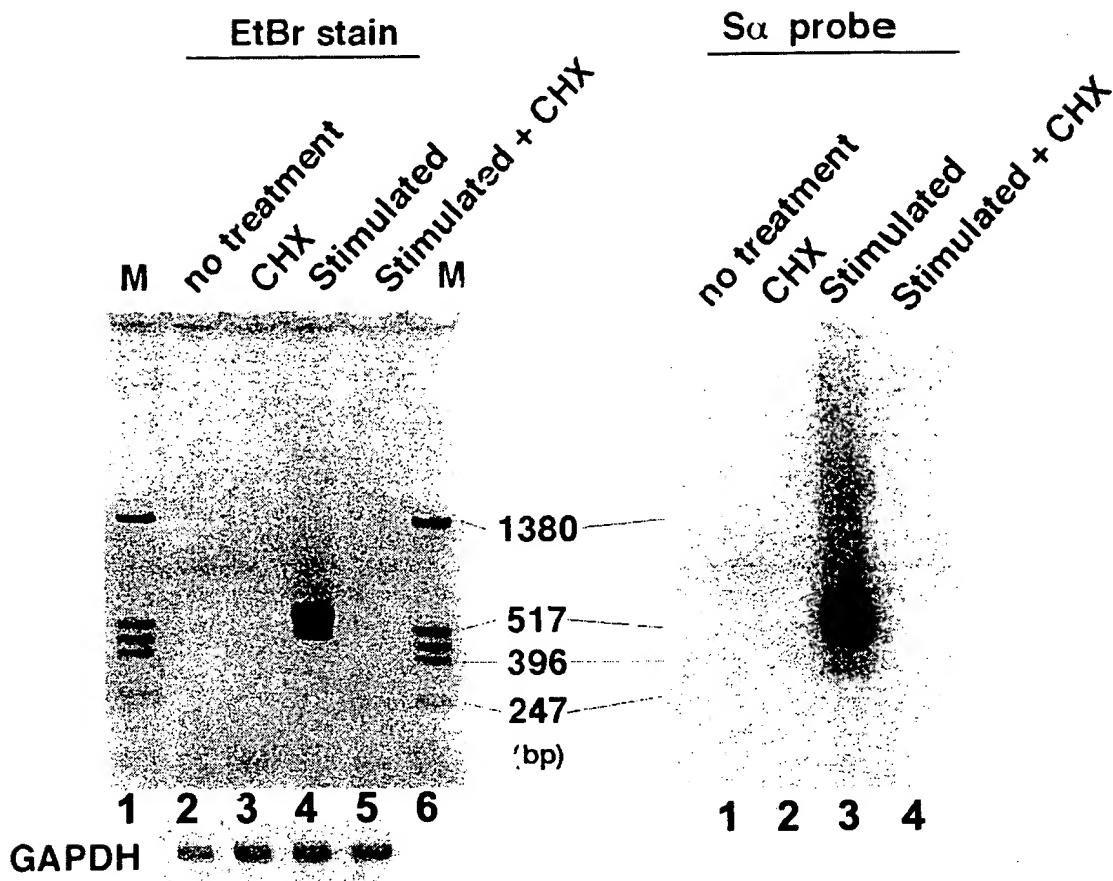


FIG. 2A

FIG. 2B

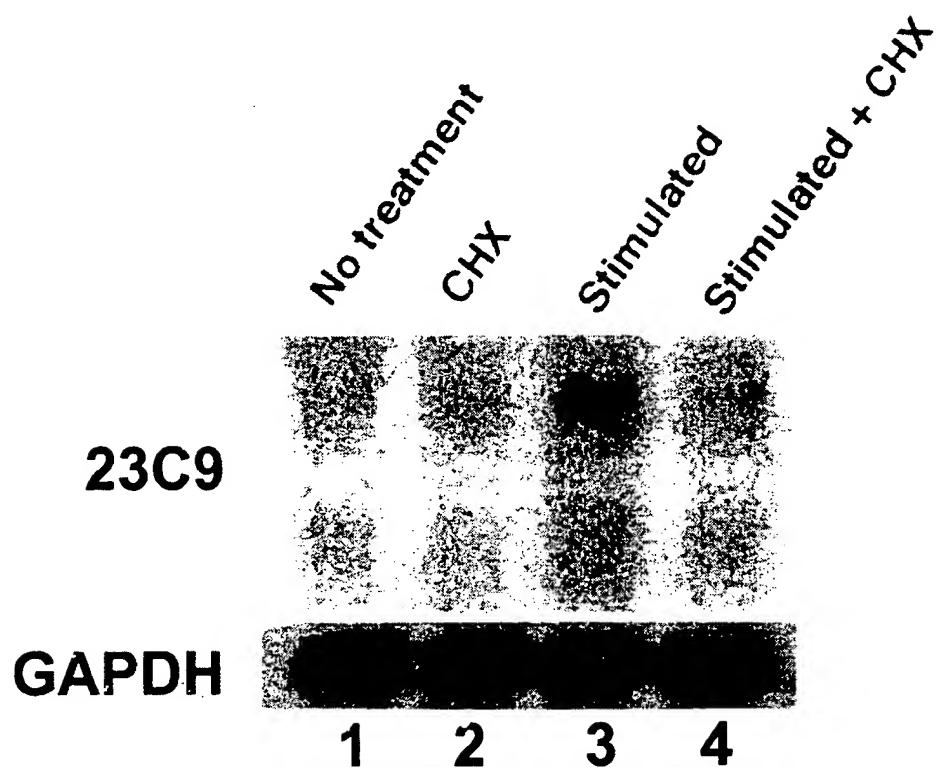


FIG. 3

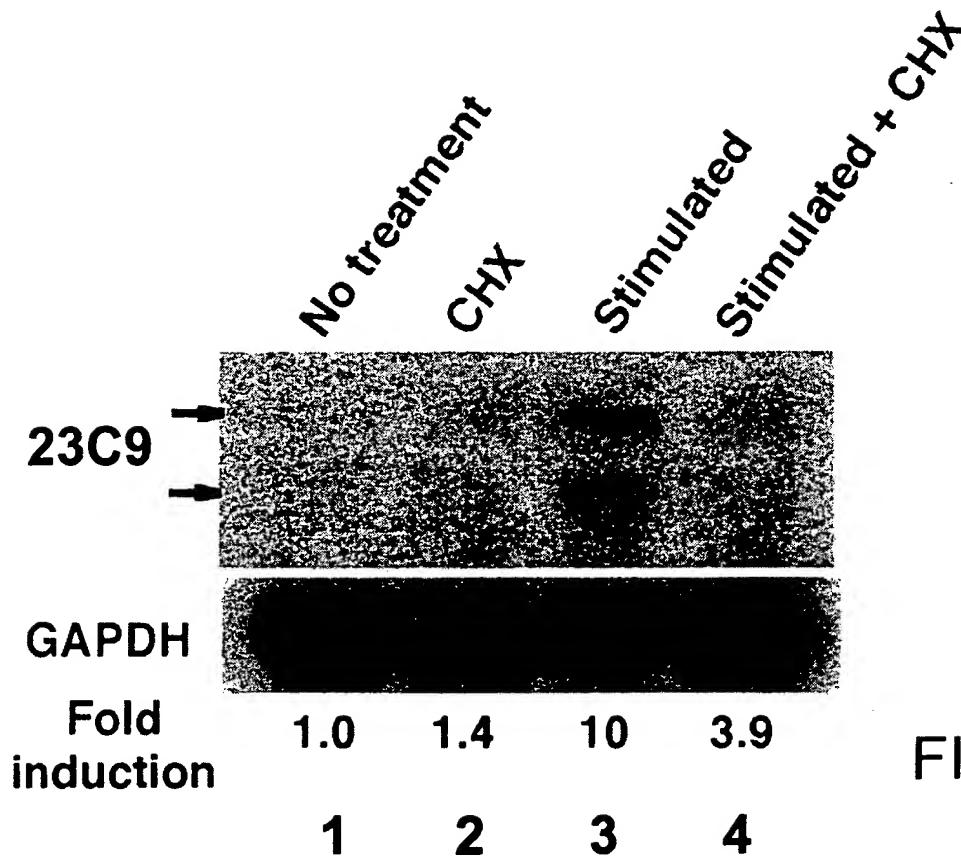


FIG. 4

mAID	1	---D--SL-L-MK-QKKF-LYHFKNVRW-AKG-RHETYVVKRRDSATSCSLDFGHLR	50
mAPOBEC-1	1	ASSETGPVAVDPTLRRRIEPEHEF-EVFFDPRELRKETCLLYEIN-W-GGRH-SV-WRHTS	55
*			
mAID	51	NKSGCIVELLFLI-RYISDWLDLDP-GRCYRVITWFTSWSSPCYDCARHVAEFLRWNPMLSRTI	108
mAPOBEC-1	56	QNTSNIVIVEVNFLIEKFTTERYFRPNTRC-SITWFLSWSSPCGECSSRAITEFLSRHPYVTLF	114

mAID	109	FTARLYFCEDRKAEPEGLRRRTHRAGVQIGIMTFKDYFYCINTEVENRERTFKANEGLHEN	168
mAPOBEC-1	115	YIARLYHHTDQR-NRQGLRDLISSGVTIQIMTEQEYCYCWRNFVNYPSSNEAYNPYRPHL	173

mAID	169	SVRL-TRQIIRRILPYLE-VDDILRDAFRMLGF-----	198
mAPOBEC-1	174	WVKLYVLELYCIIIGLPPCLKILRRKQPQLTEFTITLQTCHYQRIPPHLLWATGLK	229

FIG. 5

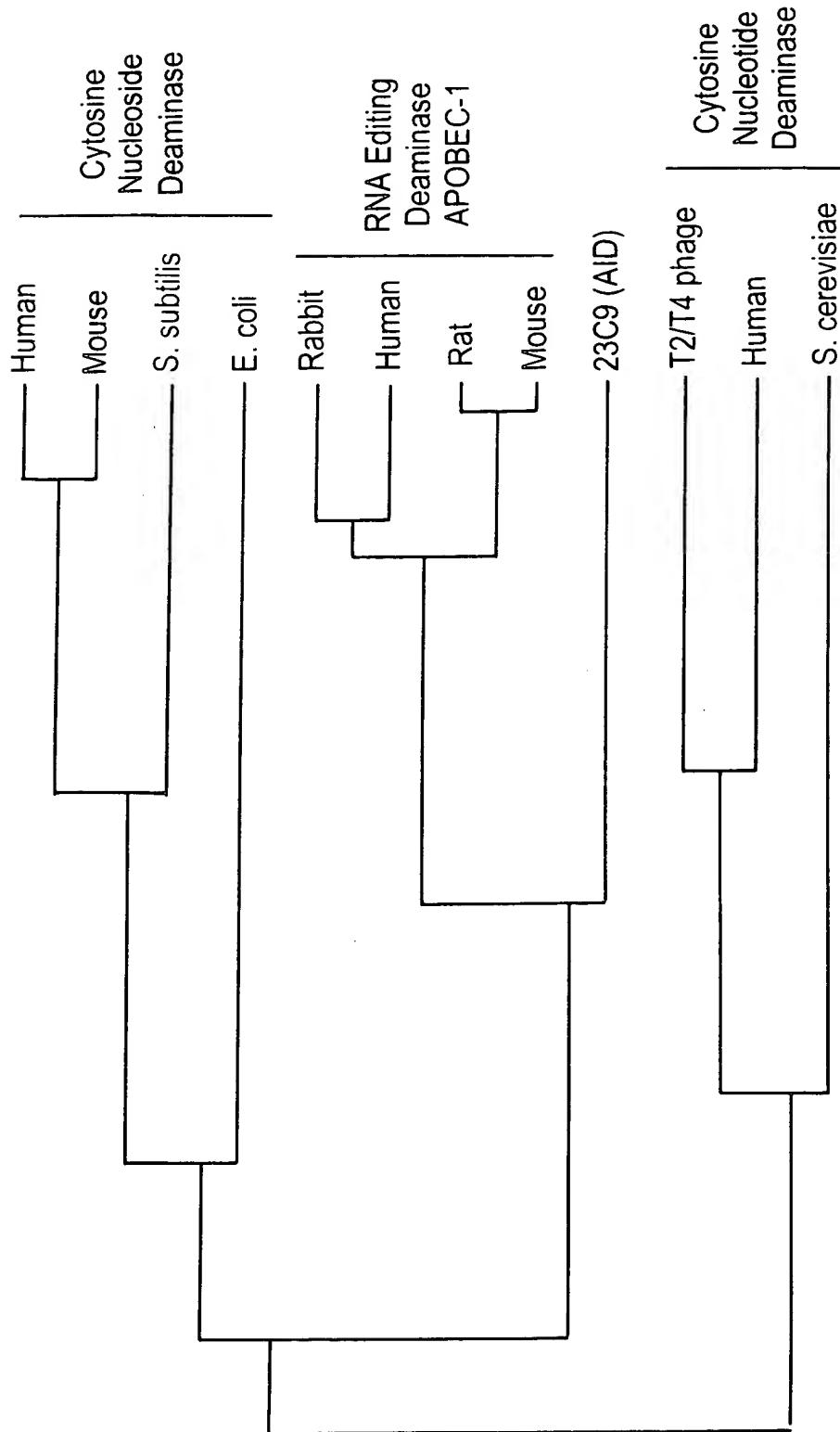
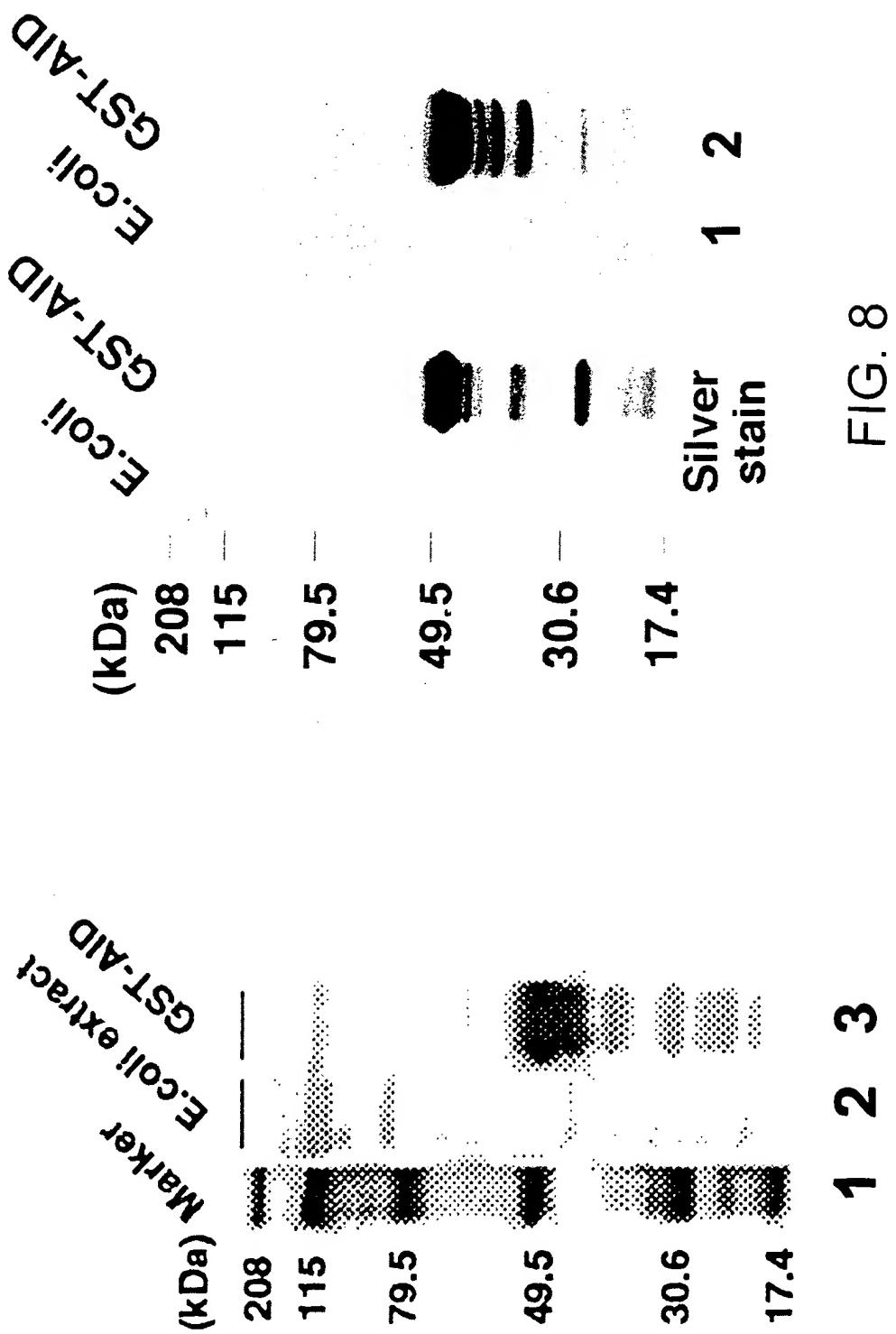


FIG. 6



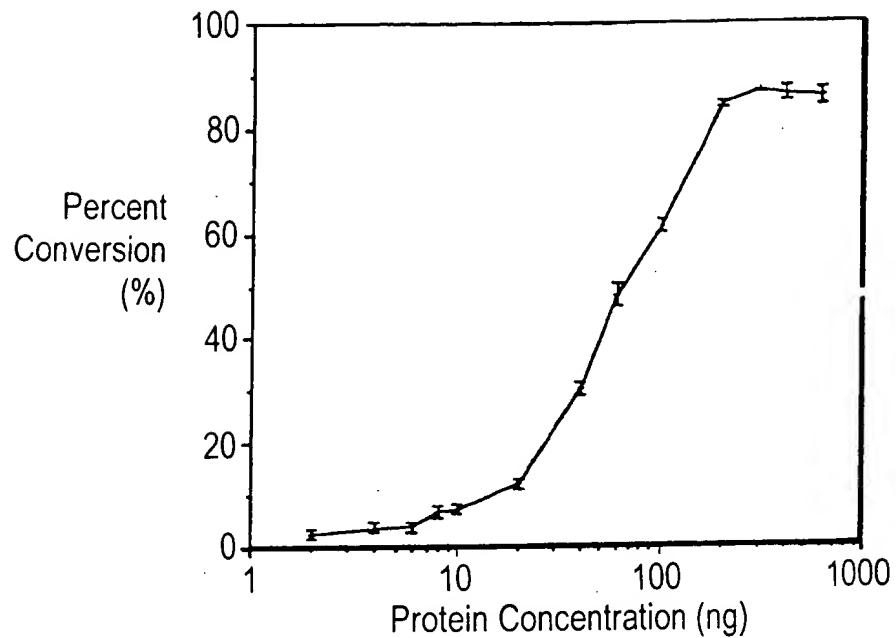


FIG. 9

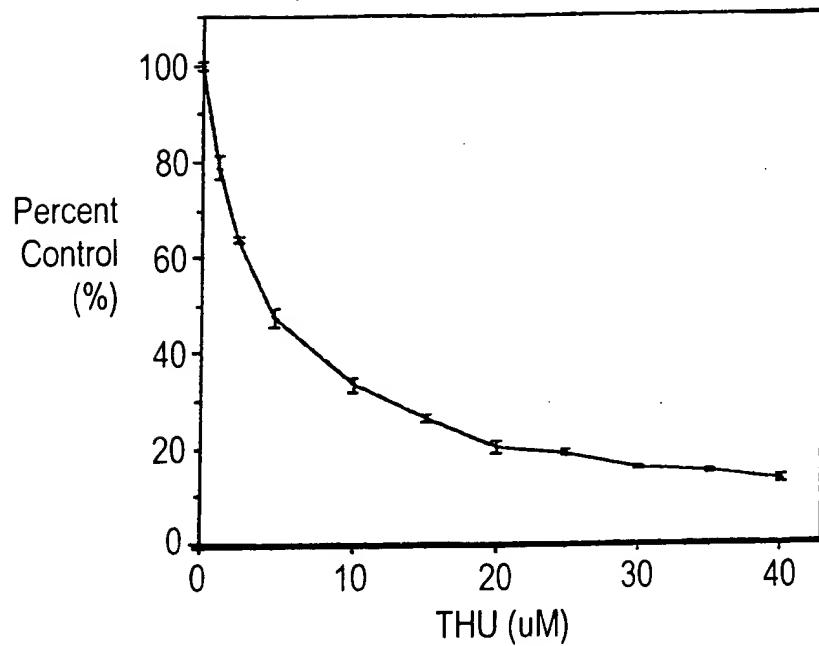


FIG. 10

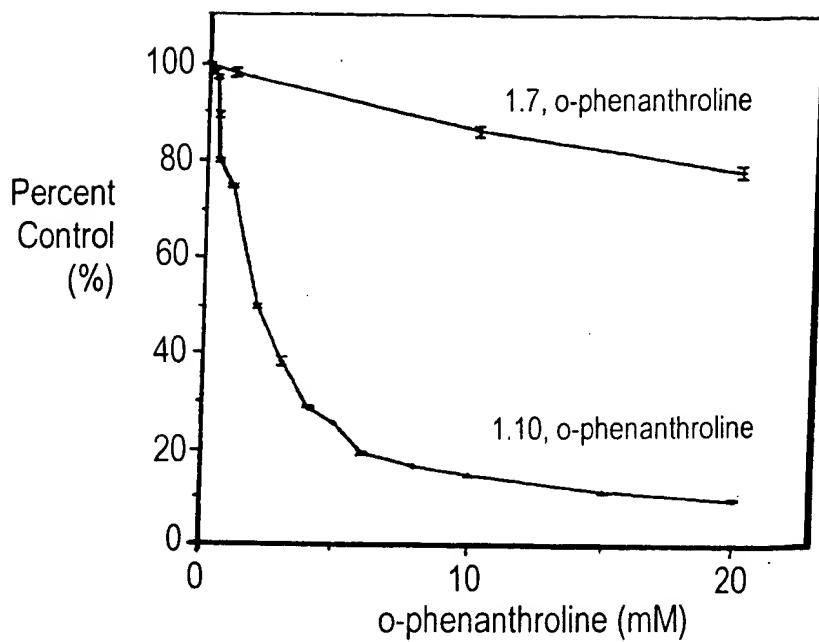


FIG. 11

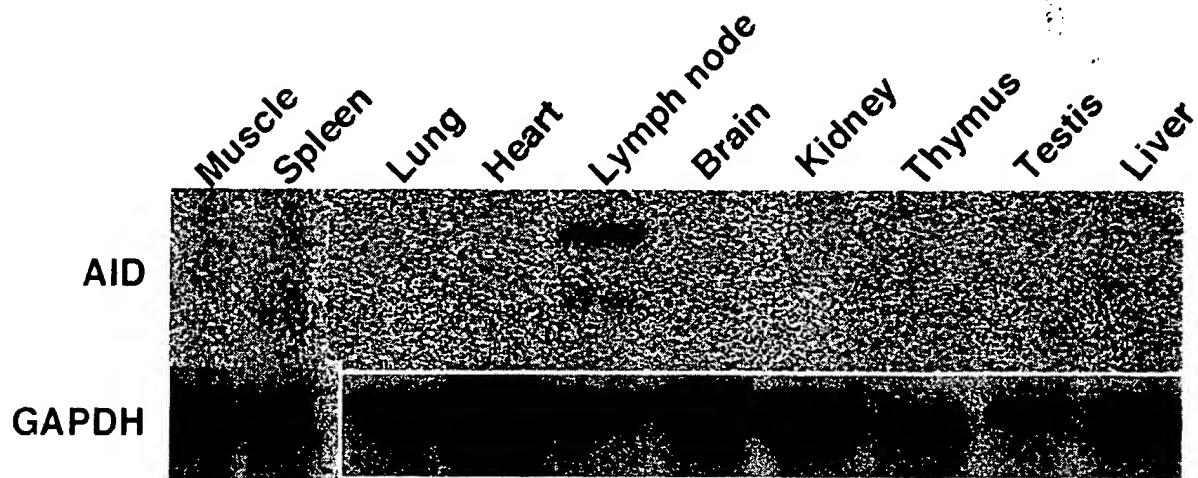


FIG. 12

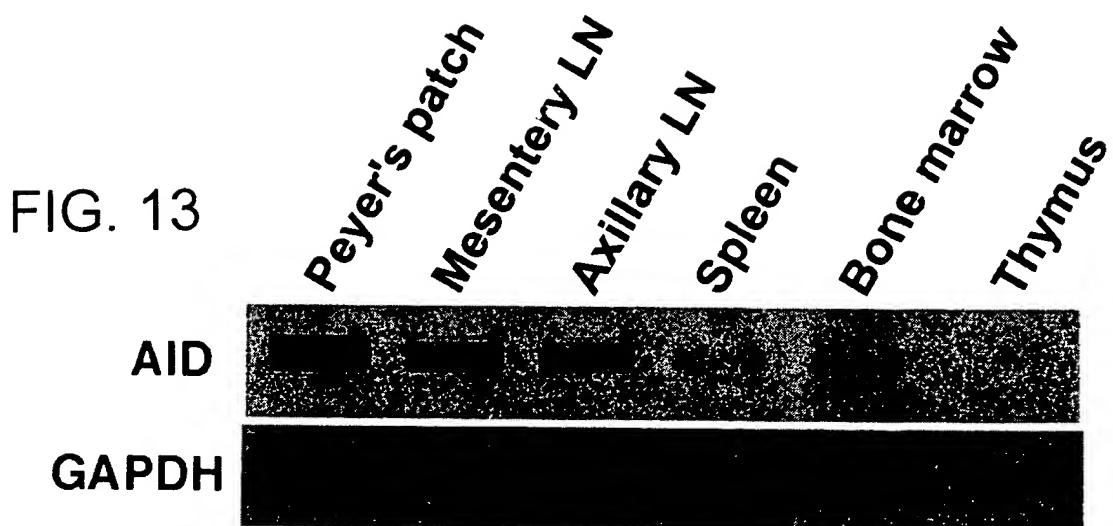


FIG. 13

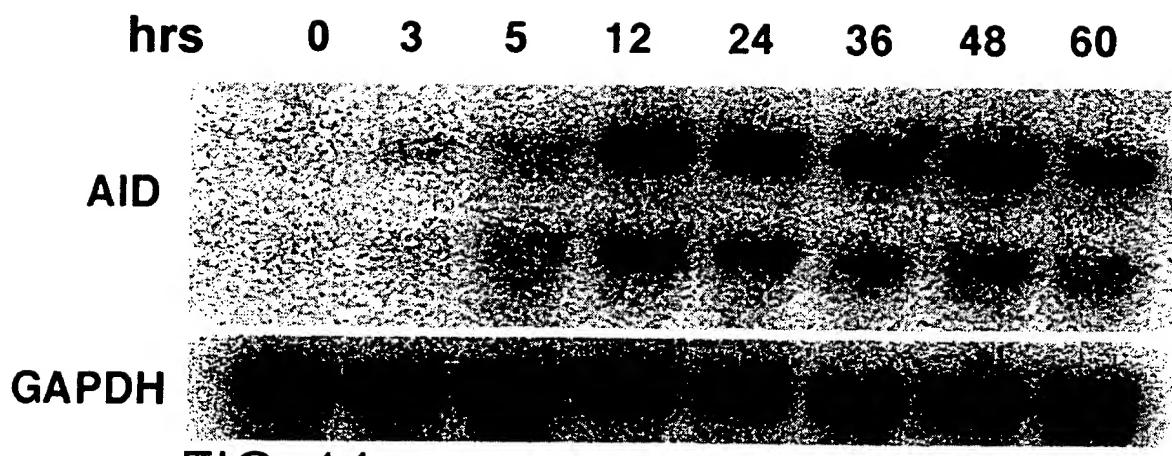


FIG. 14

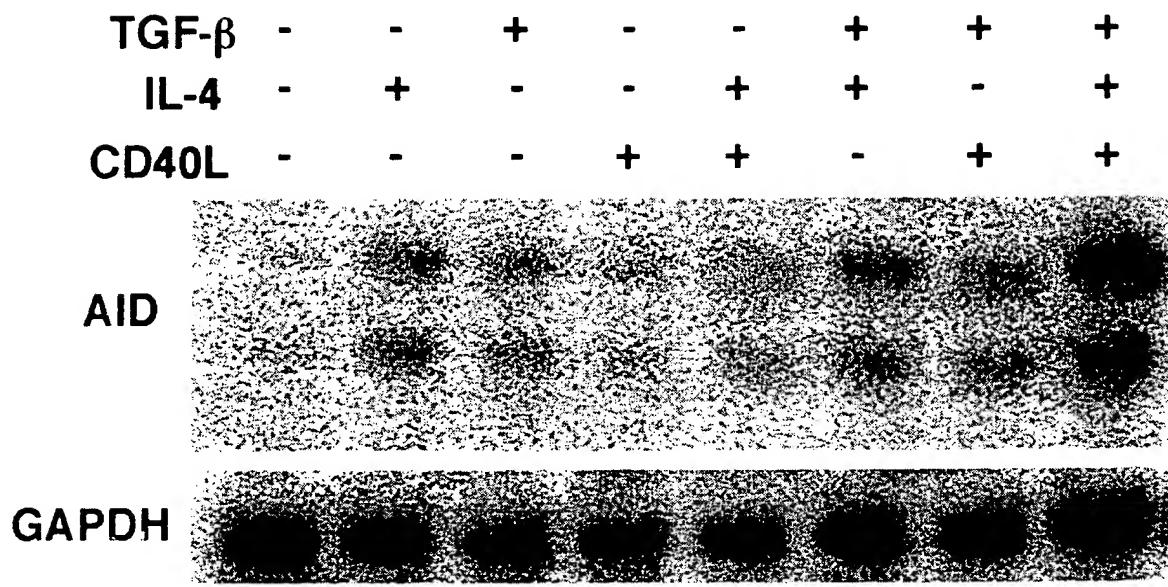


FIG. 15

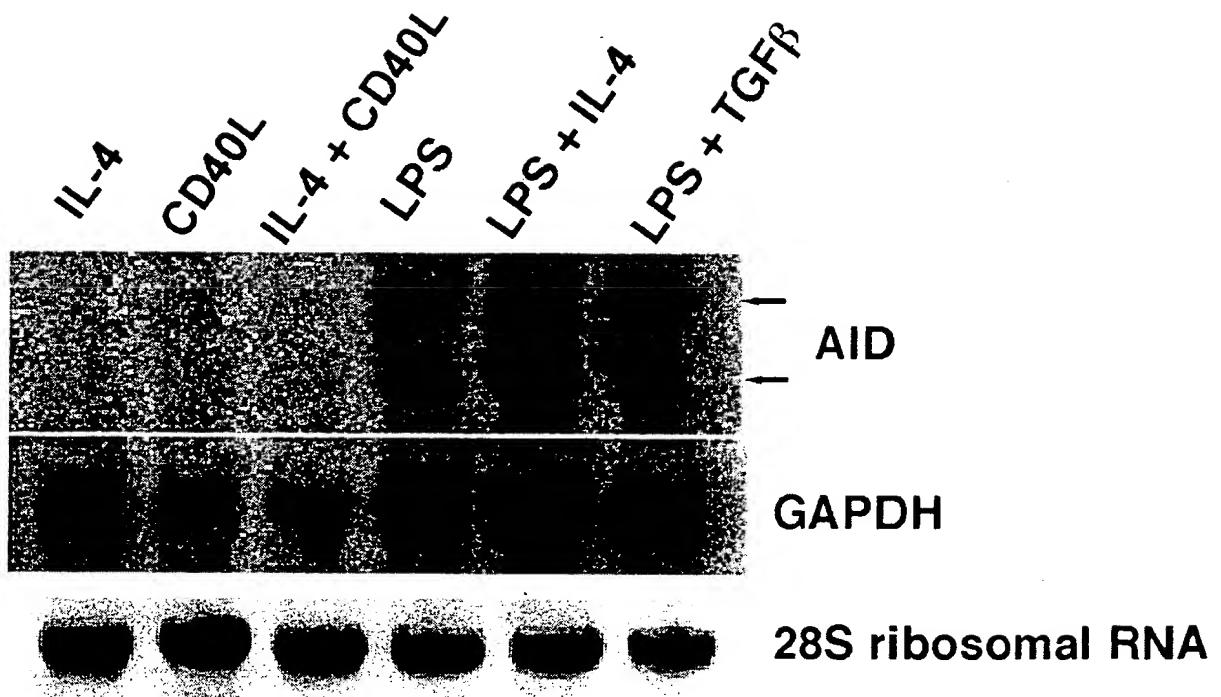


FIG. 16

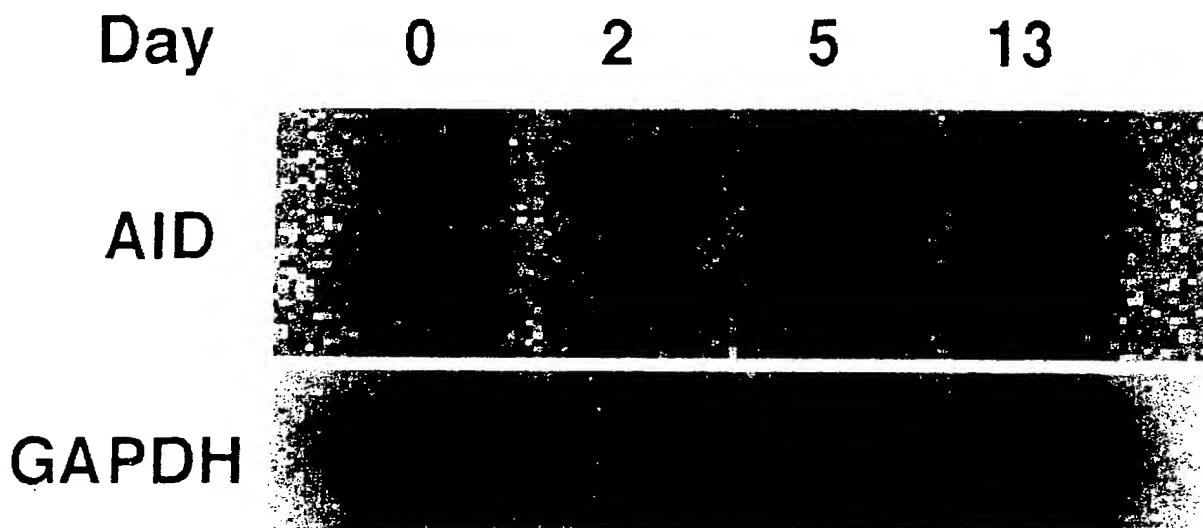


FIG. 17

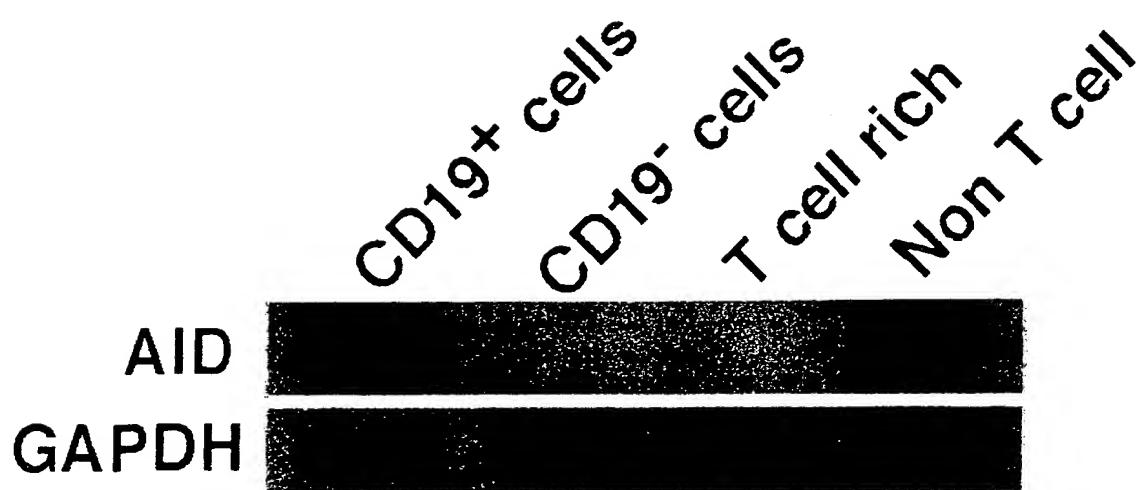


FIG. 18

Day 0



FIG. 19C

Day 5



PNA receptor
FIG. 19F

AS probe
FIG. 19E

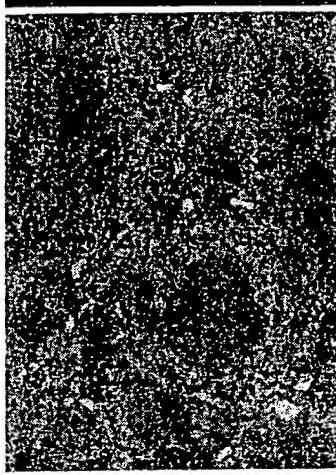
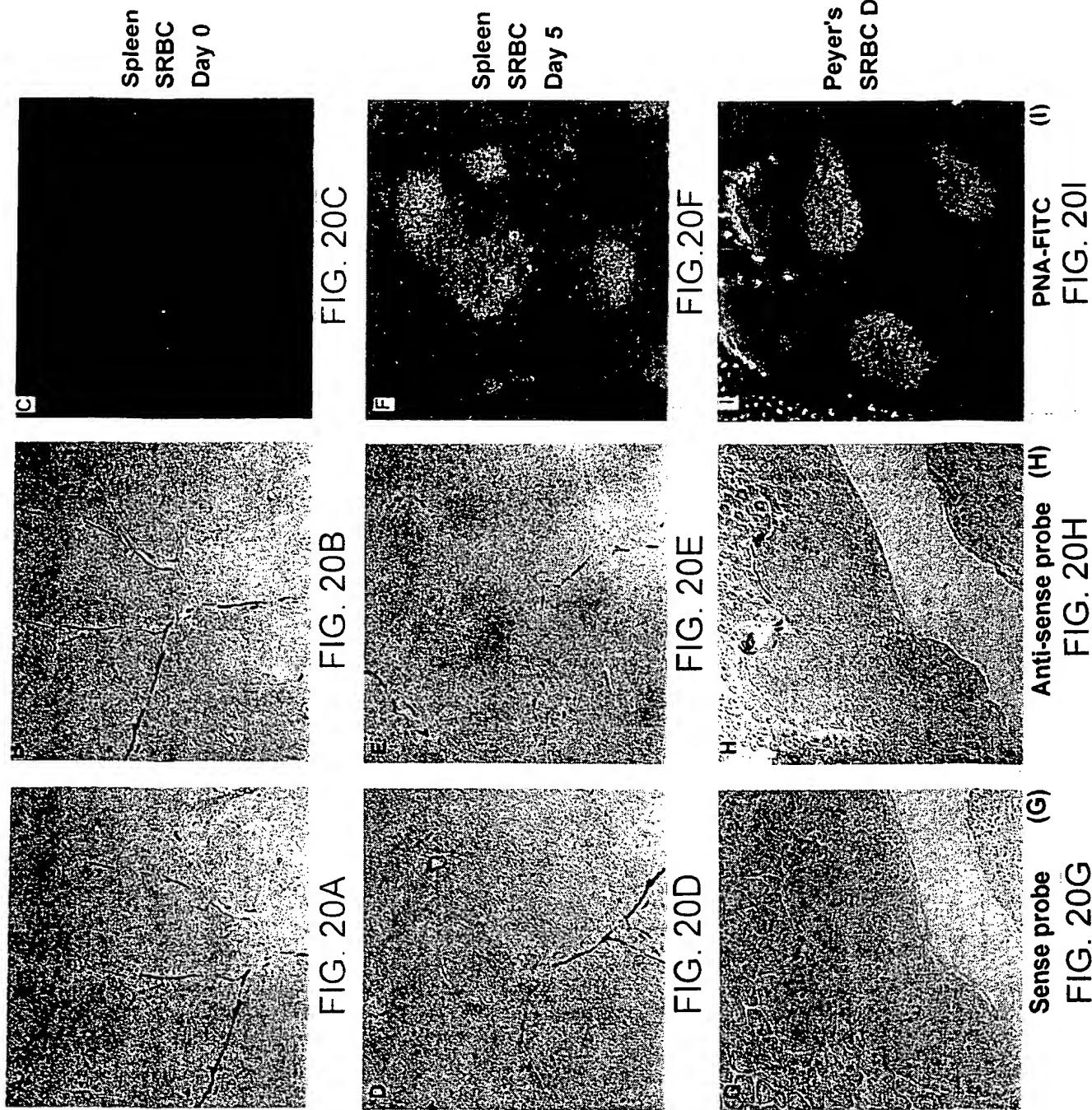


FIG. 19B



FIG. 19A

sense probe
FIG. 19D



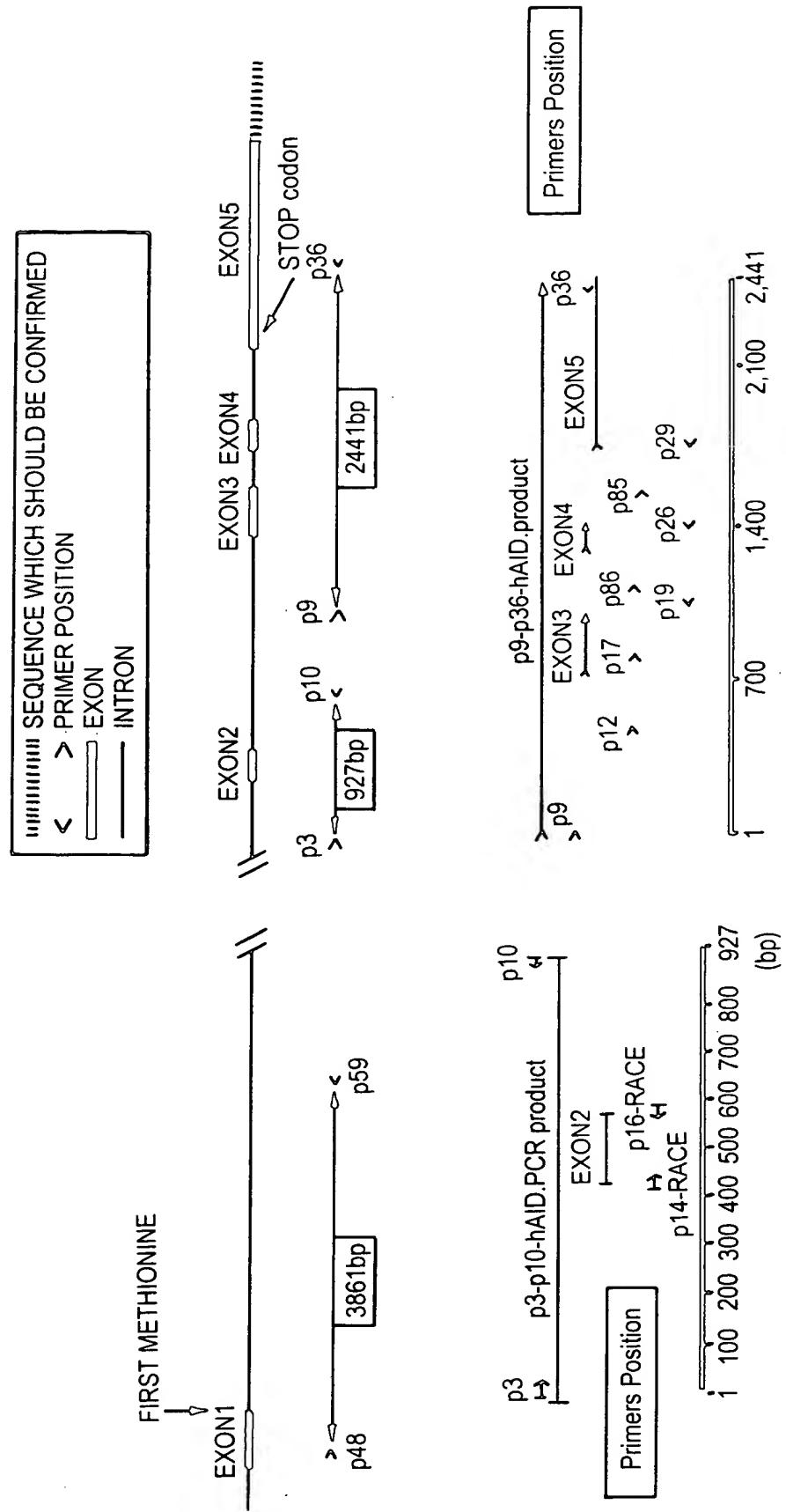
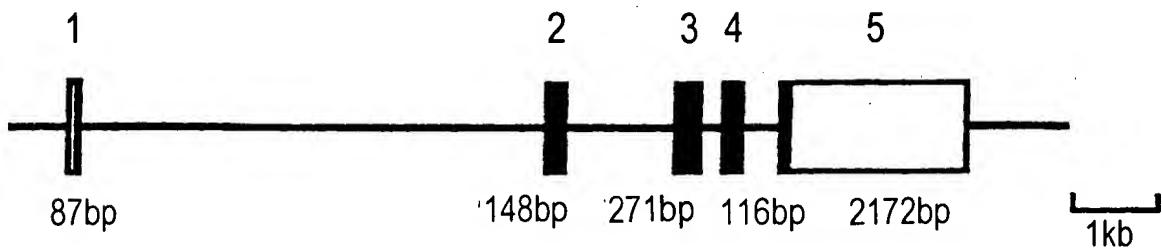


FIG. 21

Human :	1	MDSLLMNRKFLYQFKNVRWAKGRRETYLCYVVKRRDSATSFSLDFGYLRNKNGCHVELL	60
	*****	*****	*****
Mouse :	1	MDSLLMQRKFLYHFKNVRWAKGRRETYLCYVVKRRDSATSCSLDFGHLRNKSGCHVELL	60
	*****	*****	*****
Human :	61	<u>FLRYISDWLDLPGRCYRVTWFTSWSPCYDCAREV</u> ADFLRGNPNLSLRIFTARLYFCEDRK	120
	*****	*****	*****
Mouse :	61	<u>FLRYISDWLDLPGRCYRVTWFTSWSPCYDCAREV</u> AEFLRWNPNLSLRIFTARLYFCEDRK	120
	*****	*****	*****
Human :	121	AEPEGLRRLHRAGVQIAIMTFKDYFYCWNTFVENHERTFKAWEGLHENSVRLSRQLRRIL	180
	*****	*****	*****
Mouse :	121	AEPEGLRRLHRAGVQIGIMTFKDYFYCWNTFVENRERTFKAWEGLHENSVRLTRQLRRIL	180
	*****	*****	*****
Human :	181	LPLYEVDDLRLDAFR _T LGL	198
	*****	*****	*****
Mouse :	181	LPLYEVDDLRLDAFRMLGF	198

FIG. 22



Exons	5' Splice Donor	3' Splice Acceptor	Exons
1	GACAGgt	agCCTCT	2
2	ATAAGgt	agAACGG	3
3	CAAAGgt	agATTAT	4
4	TTTGgt	agCCCCT	5

FIG. 23

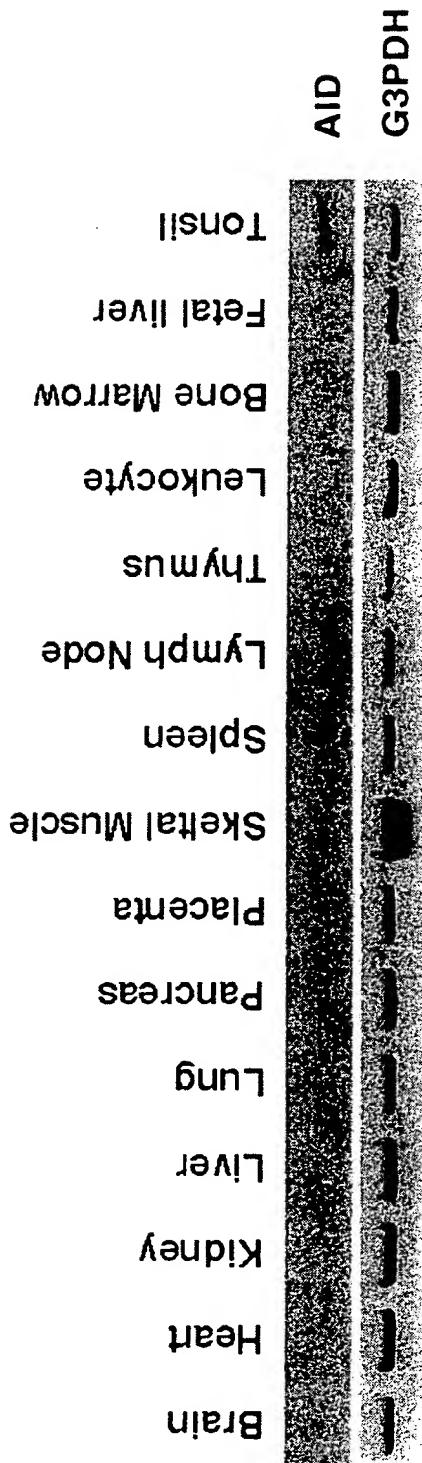


FIG. 24

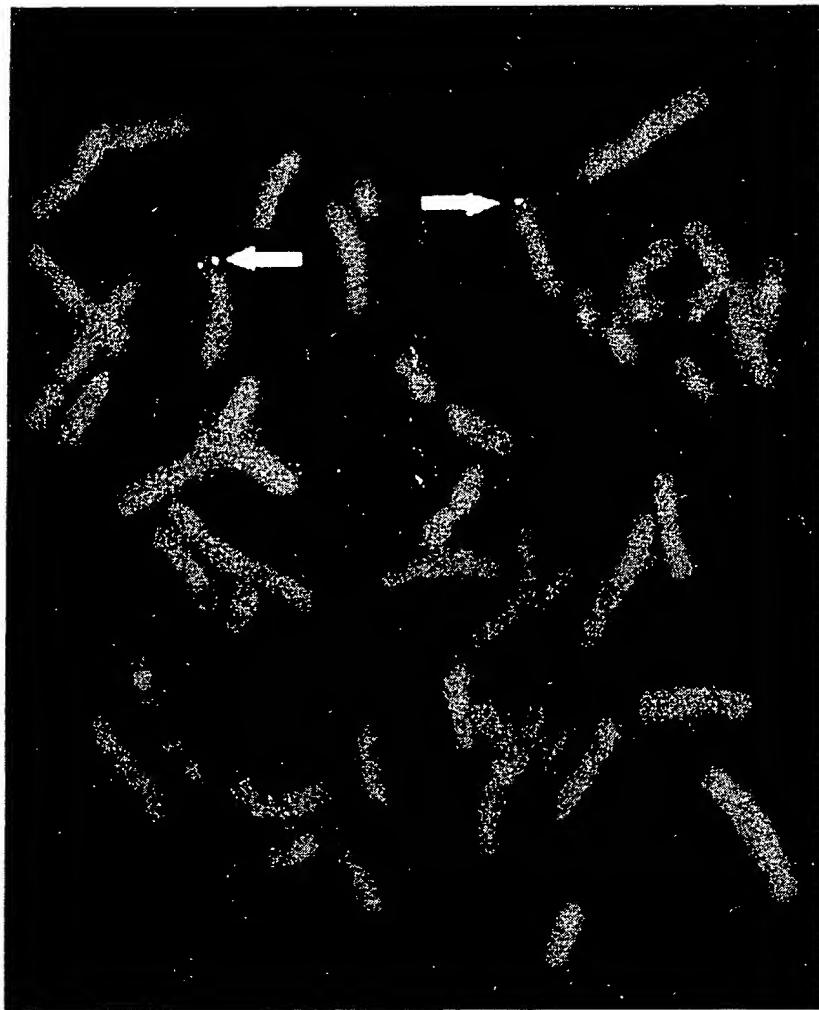


FIG. 25